MARSHALL STAR

Marshall Space Flight Center — March 30, 2000

"We bring people to space — We bring space to people"

Educator Resource Center opens Friday at La. Tech

See related story on page 3

by Jamie Troutman

Beginning Friday, a new NASA Educator Resource Center will give Louisiana residents — as well as neighboring states — access to NASA expertise and educational materials in science, math and technology.

The new Louisiana Educator Resource Center is located at Louisiana Technical University in Ruston, La. The Marshall Center selected the university through a competitive application process that resulted in a two-year renewable agreement between NASA and the university.

The Louisiana Educator Resource Center will be in partnership with the "Idea Place" on the Louisiana Tech campus. The Idea Place is a hands-on museum dedicated to understanding science and math.

"Our Educator Resource Center sites, such as this latest one serving Louisiana, are all part of NASA's initiative to create a place where teachers can experience NASA online resources and receive professional development credits at workshops," said Barbara Long of Marshall's Education Programs Department.

The Louisiana Educator Resource Center is affiliated with NASA's Aerospace Education Services Program, which uses NASA's assets to support local, state and regional curriculums, as well as existing and emerging national education standards.

The writer, employed by ASRI, supports the Media Relations Department.

Photos by Doug Stoffer, NASA/Marshall Space Flight Center

Takashi Matsui, president of Japan Manned Systems Corp.

Japanese guests

Executives from Japan Manned Space Systems Corp. view Space Station Express racks in Bldg. 4708 during a visit to Marshall March 17. The group came to Marshall to discuss commercialization.

'Great Moonbuggy Race'

Teams from 17 states and Puerto Rico to compete

by George Hayward

Teams from across the United States are approaching their final tune-up phase in preparing for the 7th annual Great Moonbuggy Race, April 7-8 at the U.S. Space & Rocket Center in Huntsville.

More than 40 teams — the most ever for the event — from 17 states and Puerto Rico have entered this year's race.

"Safety Now, for the Future"
— Safety slogan submitted by
Dan Mellen, ED22

The competition is inspired by the first lunar roving vehicle, which was designed, developed and tested at the Marshall Center. The event challenges students to design and build a human-powered vehicle so they will learn how to deal with real-world engineering problems — similar to those faced by the original Marshall Center lunar rover team.

"This is an excellent program for inspiring high school students and students going into engineering fields," said Center Director Art Stephenson. "It's really exciting to build something and then actually see it work. And that's one of the fun things about the space program."

Teams must confront stringent requirements. For instance, prior to the race, the unassembled vehicle must occupy a space no more than 4 feet high, 4 feet wide and 4 feet long. During the race, vehicles powered by two team members, one male and one female, race one at a time over a half-mile obstacle course of simulated moonscape terrain.

Winners in each category — high

*See **Moonbuggy** on page 7*

Women's History Month

Local engineers host northern Alabama Girl Scouts

The North Alabama Sections of the Society of Women Engineers and the American Society of Mechanical Engineers sponsored "Engineering Day" March 4 for the Cadette and Senior Girl Scouts of Madison and Limestone counties, celebrating "National Engineers Week" and "Women's History Month."

Members of the Society of Women Engineers, American Society of Mechanical Engineers, other local engineers, and members of the University of Alabama in Huntsville Society of Women Engineers student section helped attending Girl Scouts complete the requirements for the "Build a Better Future" patch. The Society of Women Engineers and the Ford Motor Company funded the event.

Activities included a panel discussion on various engineering fields and how to become an engineer; a computer-aided design demonstration; a demonstration of stereolithography and how it is used to aid the biomedical engineering field; a segment on how paper is recycled; and a reverse engineering segment where items were taken apart to see how they work.

Both the Society of Women Engineers and the American Society of Mechanical Engineers are commited to educating young adults about engineering and its impact on society and our quality of life. The Society of Women Engineers also is committed to encouraging females to pursue science and engineering as a career choice.

Girl Scouts of North Alabama Inc. serves more than 8,500 members in 12 counties in Alabama and two in Tennessee.

Girl Scouts used newspapers to build towers strong enough to hold paperback books as part of their activities.

One activity taught the girls about blue prints and creating house plans.

Perspectives

Dr. Emily Cook, author of books on women and public policy, shares information with Jerry Seemann of Marshall's Chief Council Office prior to a "lunch and learn" presentation discussing perspectives in women's history. The event was part of Women's History Month observances.

Photo by Emmett Given, NASA/Marshall Space Flight Center

NASA Educator Resource Center offers teachers professional development opportunities

by Jamie Troutman

NASA's Educator Resource Center in Huntsville offers teachers professional development opportunities through weekly creative three-hour workshops.

These informative workshops are designed to help educators obtain comprehensive NASA science, mathematics and technology instructional materials.

"Educator Resource Centers are a source of enhancements to the school curriculum through workshops and information generated by NASA programs, technology and discoveries," said Alease Sims, coordinator of the Educator Resource Center.

The resource center, located at the U.S. Space & Rocket Center, is one of the ways in which the Marshall Center partners with the education community. Educating and informing teachers — and the nation's youth — on the findings of space exploration is part of NASA's charter.

"When we have workshops at the Educator Resource Center and reach one teacher, that in turn reaches an average of 30 students," said Alicia Beam of Marshall's Education Programs Department. "When we reach 100 teachers, that touches 3,000 students. The numbers just keep going up."

NASA's Educator Resource Center network provides access to NASA materials such as lesson plans, videotapes, educational CD-ROM, audio cassettes, reference books, activities, posters and lithographs.

All educators — from public and private school teachers to parents who home-school their children — may use these resources.

For those unable to visit the center in person, the Internet and Web-based technology make information easily available to educators and students throughout Alabama and neighboring states. Marshall is responsible for resource centers in six states: Alabama, Arkansas, Iowa, Louisiana, Missouri and Tennessee.

Workshops offered range from "Building Rockets," to "Exploring Earth from Space." Other workshops include "International Space Station," "Exploring Meteorite Mysteries," "NASA Online Resources: Tools for Teachers," "Terrestrial Sounds to Space Weather," "Space Food and Nutrition" and many more.

The Educator Resource Center is open Monday-Friday, 9 a.m.-6 p.m and 10 a.m.-2 p.m. the first and third Saturday of each month. The center is closed on holidays.

For more information, call 544-5812, or check out the Web site at: www.msfc.nasa.gov/education/erc/event.html

The writer, employed by ASRI, supports the Media Relations Department.

Photo by Terry Leibold, NASA/Marshall Space Flight Center

TV Channel 48 meteorologist Brad Travis, left, joins Alease Sims, center, the Educator Resource Center coordinator employed by Ai Signal Research Inc., and Alicia Beam of the Education Programs Department at a workshop on "Earth's Mysterious Atmosphere" at the Educator Resource Center March 22.

Teacher workshops through May

All Educator Resource Center-sponsored teacher workshops are held at the U.S. Space & Rocket Center.

March

- March 30: 2-5 p.m.
  Exploring Meteorite Mysteries

April

- April 1: 10 a.m.-2 p.m.
  International Space Station
- April 4: 9 a.m.-noon
  "Twinkle, Twinkle Little Star"
- April 6: 2-5 p.m.
  Space Transportation
- April 10: 9 a.m.-noon
  Designing Space Science Lessons
- April 11: 9 a.m.-noon
  Exploring Earth from Space
- April 13: 2-5 p.m.
  Lunar Sample Certification
- April 18: 9 a.m.-noon
  Space-Based Astronomy
- April 20: 2-5 p.m.
  Microgravity
- April 25: 9 a.m.-noon
  Aeronautics for Elementary Teachers
- April 27: 2-5 p.m.
  International Space Station

May

- May 2: 9 a.m.-noon
  NASA Spinoffs
- May 4: 2-5 p.m.
  Mission to Planet Earth
- May 6: 10 a.m.-1 p.m.
  International Space Station
- May 9: 9 a.m.-noon
  International Space Station
- May 11: 2-5 p.m.
  Telescopes
- May 16: 9 a.m.-noon
  Building Rockets
- May 18: 2-5 p.m.
  History of Rocketry
- May 23: 9 a.m.-noon
  Designing Aerospace Units
- May 25: 2-5 p.m.
  Accessing NASA Online Resources

Upcoming Events

Parts Management Workshop — "Mission Success on the Information Highway" will be presented April 4-5 in Bldgs. 4200 and 4203. Anyone involved in parts specification, evaluation, procurement, analysis or maintenance is encouraged to participate. For more information or registration, call Sandy Haraway at 544-4264.

Project Management Conference — A project management shared experiences conference will be held May 7-11 at The Sheraton Oceanfront Hotel in Virginia Beach, Va. The conference provides a forum to understand key initiatives influencing NASA project management and for project people to share knowledge, experiences and creative approaches to project management. For more information, call Renee Higgins at 544-8864.

Community Leaders' Breakfast — Marshall's annual community leaders' breakfast will be at 7:30 a.m. April 20 in the Bldg. 4203 cafeteria. Those invited include the board of directors of the Huntsville/Madison County Chamber of Commerce, Madison City Chamber of Commerce, North Alabama African-American Chamber of Commerce, Gadsden Chamber of Commerce, Athens/Limestone County Chamber of Commerce, Decatur-Morgan County Chamber of Commerce, Alabama Commission on Aerospace Science and Industry, and local elected officials.

Spot an Environmentalist — If you "spot an environmentalist," doing his or her part to keep Marshall environmentally friendly, submit the employee's name and a short justification of the environmental deed via e-mail to: lucy.boger@msfc.nasa.gov
or mail to AD21, Bldg. 4250, room 16B, no later than April 8. Fifteen gift certificates will be awarded to winning nominees.

Astronauts Sign Books —Apollo 16 astronaut Charlie Duke and former astronaut Sally Ride will be at the U.S. Space & Rocket Center this week. Duke will be in the main lobby near the gift shop from 2:30-4 p.m. Thursday to sign his book "Moonwalker." Ride will speak at the U.S. Space Academy graduation Friday. From noon-2 p.m. in the main lobby near the gift shop, she will sign her book "The Mystery of Mars." Both books are available for purchase at the Space Center.

Marshall Open House —Marshall's Open House will be from 9 a.m.-6 p.m., Saturday, May 20. Admission is free. See out-of-this world space flight technology demonstrations, appearances by NASA astronauts and space experts, and enjoy games, family activities and entertainment. Get a first-hand look at the Marshall Center's laboratories and sophisticated test facilities. For more information, call Angela Storey at (256) 544-0632.

Buyout Night April 6

'NASA Goes to the Stars'

"NASA Goes to the Stars" at 7:05 p.m., April 6 at Joe Davis Stadium for the opening night baseball game between the Huntsville Stars and the Chattanooga Lookouts. A limited number of tickets are available in the Government and Community Relations Department in Bldg. 4200, room 828. Each ticket will admit up to four people.

The free general admission tickets to the game may be used toward the purchase of upper or lower box seats for the game by visiting the Stars office prior to the game or at the Stars box office on the night of the game. Trade-up value on the free tickets is $4 per person. Upper and lower box seat tickets are regularly $7 each. Parking is $3.

Safety Slogan winners:

The following employees submitted winning safety slogans and will receive two VIP tickets to the Stars game:

Robert Bond, ED33; David Brown, ED32; Richie Brown, QS20; Dawn Christian, SD01; Libby Creel, ED13; Terri Dailey, Infinity/AD40; Gregg Dyar; CSOC/WANG; Robin Flachbart, TD53; Elizabeth Garcia, PRC Inc./CD10; Toki Hammac-Owens, ASRI/CD50; Tom Hancock, BMSD; David Harvey, EG&G; Betty Humphery, CD70; Tracy Lamm, CD50; Gene Medlen, OAO/ODIN;

Judy Milburn, QS10; Ralph Moye, TD62; James Newton, ASRI; Jeannine Norman, CSC/AD32; Dianne Parson, ODIN; Talmadge Reynolds, AD02; Mark Sloan, ASRI; Ronald Smith, PS52-K; Mike Sproston, CSOC/WANG; David Stephenson, TD12; Ken Thomas, AD23; Paul Thompson, ED23; Polly Thompson, TD50; Ann Towry, SD81; Stephen Tucker, TD52; and Joseph Verhage, ED27.

Earth Day Logo

Kendall Crew of PricewaterhouseCoopers submitted the winning Earth Day logo shown above.

Earth Day will be celebrated at Marshall April 20 with a tree planting ceremony from 10-11 a.m. on the west side of Bldg. 4493. T-shirts can be ordered online at: http://ntf-1.msfc.nasa.gov/earthday.nsf/order

Multi-use environments pose accountability issues

Logistics Services Office personnel recently visited areas where a number of people use the same property, and one individual is recorded as "user" of the property in the NASA Equipment Management System (NEMS) database. Logistics personnel looked at accountability of the property.

In almost all cases, the people responsible for the property have taken innovative actions to ensure security of the government property entrusted to them. Their innovations are listed below.

• One multi-use area installed a clipboard and pen hanging on the door of the room where their equipment is stored. Users log out and return needed equipment as required.

• Another facility developed a multi-use database that had organizational information other than just property activity in it. This system tracked each action, such as loans, excess activity, transfers and repairs, which occurred to each item of equipment. Information included tag number, item name, model, building and room, and a primary user, which is periodically compared to NEMS for accuracy.

• Another organization developed an innovative database that listed all the pertinent details of the property. It includes a graphic layout of each floor and room of the buildings involved, with a property location. It even included the ability to click a button and have a picture of the item pop up!

Logistics Services Office personnel also found people using logbooks and signing hand-receipts to track accountability of property.

There are many ways to protect the valuable resources entrusted to Marshall employees and contractors by the taxpayer. Please take the time to protect your property.

For help with property accountability issues, call 544-8436.

Elements for becoming VPP Star Site

Mishaps, incidents and injury rates explained

Editor's note: This is the fourth in a series of articles to address frequently asked questions on the 19 elements in the Voluntary Protection Program (VPP).

Q: What is a mishap?

A: A mishap is an unexpected occurrence, event or sequence of events, that results in an injury or death to employees, visitors or the public, or damage to NASA equipment or property. Mishaps are categorized as:

• Type A, a mishap that causes death or damage to NASA property equal to or greater than $1,000,000;

• Type B, a mishap resulting in permanent disability to one or more persons or damage to NASA equipment or property equal to or greater than $250,000 but less than $1,000,000;

• Type C, a mishap causing occupational injury or illness resulting in a lost workday case or damage to NASA equipment or property equal to or greater than $25,000 but less than $250,000.

An incident is a mishap causing occupational injury or illness that does not result in lost workdays, but requires medical treatment beyond first aid, or damage to NASA equipment or property equal to or greater than $1,000, but less than $25,000. A close call is any mishap that has the potential to cause injury or damage.

Q: Why report mishaps/incidents?

A: A key Marshall Principle of Safety is "All mishaps can be prevented." But if one occurs, it should be reported immediately. An investigation must be conducted to determine the cause, and to incorporate corrective actions to reduce the probability of recurrence. Report mishaps to your supervisor and the Safety Office at 544-HELP; try to preserve evidence at the scene. Call 911 if it is an emergency situation. Keep a written record of all the events that were reported to you. This will make it easier for the investigation team. Training on mishap investigation is available from Marshall training.

Marshall mishap reports are entered into the Incident Reporting and Information System for tracking and reporting to NASA Headquarters. Mishap reporting, tracking and correction is an Occupational Safety and Health Administration requirement. MWI 8621.1, "Close Call and Mishap Reporting and Investigation Program" provides additional information on this subject.

Q: What is an injury rate?

A: An injury rate is the number of work-related injuries, not including illnesses, in a designated time frame. The injuries are listed on the form known as an OSHA Log 200. The number of work-related injuries, times 200,000, divided by the number of hours worked by all employees, equals the injury rate. The VPP criteria compares the three-year average injury rate to the corresponding national industry rate using Standard Industry Code numbers. A listing of the codes can be found on the Web at: http://stats.bls.gov/sahome.html

Q: Why are injury rates important?

A: Injury rates are outcome-based metrics and are often used to reflect the viability of a company's safety program. By no means are these metrics the only measure of a company's safety performance. There is a movement in the safety community to include leading metrics to measure safety program performance. But, mishap rates can help identify problems. Rates also can be used to roughly compare performance from one organization to another, recognizing that the different types of work being done will affect the rate, but one should be careful that "apples are being compared to apples."

Q: What type of injury rate does Marshall have?

A: Marshall has an injury rate that is generally less than private companies in our industry group. The Marshall rate is comparable with other NASA Centers — neither the best nor the worst.

For more information, call Vyga Kulpa at 544-1383 or Lorraine Raby at 544-0309.

New Web site helps employees research facilities

Marshall's Facilities Functional Review Web site is a much-needed tool for onsite managers and personnel to locate information about the Center's facilities.

The site is located at: http://www.ies.msfc.nasa.gov/facilities/

Employees can view facility-related information, such as building systems and construction features, photo of the facility, organizational/occupant information and floor plans, in a user-friendly and dynamic manner.

Primary data sorts are:

• Core Capability Facilities — Required and essential, directly or indirectly in support of Center missions.

• Core Enabling Facilities — Indirectly required in support of Center missions

• Center Support Facilities — Provides no direct support to Center missions

• Consolidations/Closures

• Center Maps

• Space Utilization — Net usable floor area of organizations by category

• Facility Function by Organization — Facilities assigned to respective organizations

• Space Utilization by Organization — Buildings assigned to the respective organization with the number of people and area occupied by category

• Building Information — Exterior photograph, description, real property data, building function, occupants and floor plans

Users can view and print any available floor plans and submit corrections online to Facilities Engineering to aid in maintaining the most current information.

The real property and space utilization information is interactive. Changes made to the database are reflected on the Web site.

Certain engineering organization Web sites are connected to the facility Web site to provide more functional facility information. These are lab Web sites that show the work being performed. Some changes, adjustments and updates are being made as a result of the restructure reorganization and the move.

The Web site — developed in 1997 — has been demonstrated to the Code M Management Council, Code M Center directors including the Code M associate administrator, featured at the NASA Real Property Conference and the local chapter of the International Facility Management Association.

James Wyckoff and Debbie Hendon of Facilities developed the concept and Brian Dial and Donna Robinson of the Intergraph Corp. accomplished the application design and development.

Send comments, corrections and ideas for improvement to Wyckoff or Hendon.

Job Opportunities

CPP 00-51-CL, AST, Aerospace Flight Systems, GS-861-14, Flight Projects Directorate, Flight Systems Dept. Closes April 4.

CPP 00-50-CL, AST, Aerospace Flight Systems, GS-861-14, Flight Projects Directorate, Flight Systems Dept., Nodes 2/3 Program Group. Closes April 4.

Obituaries

Garner, James P., 78, of Huntsville, died March 2. He retired from Marshall in 1987 where he worked in the Test Lab. He is survived by his wife, Juathenia Garner.

Taylor, Richard F., 88, of Huntsville, died March 15. He retired from Marshall in 1973 where he worked as a program management specialist.

Compton Gamma-Ray mission comes to an end

NASA's extremely productive and long-lived Compton Gamma-Ray Observatory mission — which exceeded its mission by four years and completely changed ideas on the most important unsolved puzzles in astrophysics — has come to an end with the failure of one of the satellite's three gyroscopes.

NASA plans to safely direct the satellite back into Earth's atmosphere no earlier than June 1 with the remaining two gyroscopes, which are used to steer the craft.

Compton's lasting legacy will be its impact on gamma-ray astronomy. The telescope detected more than 400 gamma-ray sources and recorded more than 2,500 gamma-ray bursts. More information is available on the Internet at:

http://pao.gsfc.nasa.gov/gsfc/spacesci/structure/cgro.htm

Daughter of Marshall couple wins New York museum essay contest

Amber Herrmann, daughter of Marshall employees Melody and Fred Herrmann, has been named one of 12 winners in an essay contest sponsored by the American Museum of Natural History in New York City.

Amber Herrmann

Her essay, "A Study of the Orbital Path of Jupiter's Moons," will be published on the museum's Web site at: www.amnh.org and an excerpt will appear in the museum's publication, Natural History. She will receive $2,500 in an awards ceremony in New York May 12.

Amber, a senior at Grissom High School in Huntsville, and her father, a computer engineer in the Science Systems Department of the Science Directorate, used a backyard "observatory" to track the movement of Jupiter's moons for one month, plotted the data and took images with a camera connected to the telescope.

Amber's science teacher, June Kalange, gave her the entry information and encouraged her to write the essay.

"It turns out the school will receive some nice books and materials for the school library because she won," said Melody Herrmann, a systems engineer in the Advanced Space Transportation Program Office. "The school's principal, Sidney Ingram, said no one from Grissom has won this award, and they are very proud of her."

Sports

MARS Skeet Club — The MARS Skeet Club will begin its annual skeet league at 3:30 p.m. on Wednesday. All Marshall employees or onsite contractors interested in shooting skeet are encouraged to attend. The cost to each participant will be a $5 registration fee plus the actual cost of targets shot. The league will shoot every Wednesday for the next 12 weeks. For more information or to register, call Matt Bucca at 882-9798, or register Wednesday at the MARS skeet fields located behind the X-ray Calibration Facility.

MARS Tennis Club — The Mars Tennis Club will hold its first Open Doubles Tournament of the season on Saturday. Warm up begins at 8 a.m. and play begins at 8:30. Open tournament means that one member of the team must be a current MARS Tennis Club member. To participate, call Ronda Moyers at 544-6809.

Rocket City Rowing Club — The spring adult rowing clinic for beginners is being offered from 5:30-7 p.m. April 25, May 2, 9, 16, 23 and 30. Learn basic rowing technique, along with equipment and basic lingo. Cost for the clinic is $90. For more information, call Halley Little at 539-8841.

Mars Golf Club — A skins tournament will be held at 9 a.m., April 8 at Colonial. Deadline to register is Friday. The MARS Golf Club is open to all NASA employees, onsite contractor personnel and NASA retirees. For more information or to enter a tournament, call Lee Foster at 544-1589, Joey Butler at 544-3808 or Robert Rutherford at 544-8117. Entry Fees are $5.

Moonbuggy

Continued from page 1

school and college — are determined by the fastest vehicle assembly time, plus time through the course. An additional prize is awarded to the team with the best technical approach to solving the engineering problem of navigating the "lunar" surface.

The Marshall Center, the U.S. Space & Rocket Center and the American Institute of Aeronautics and Astronautics sponsor the event.

The high school competition begins at 10:30 a.m. Friday, April 7, with design judging. High school teams will begin their timed runs through the course at 12:30 p.m. An awards presentation will follow the race.

College division entrants compete Saturday, April 8, with design judging at 7:30 a.m. and race times from 8:30 a.m. to approximately 5:30 p.m. The college awards will be presented following the race.

Event details, including rules, a map of the course and photos, can be found at the Great Moonbuggy Race Web site at:
http://moonbuggy.msfc.nasa.gov

The writer, employed by ASRI, supports the Media Relations Department.

Volunteers are needed for the afternoon of April 7 and all day April 8 to support the Great Moonbuggy Race at the U.S. Space & Rocket Center. To volunteer, call Dan Ellis at 544-2319.

Employee Ads

Miscellaneous

★ Chrome roll bar and tool box for full size pickup truck, make offer. 534-8186
★ MTD tiller, rear tine, $500. 586-7424
★ 1997 SeaDoo GTX, 3-passenger jet ski with HD trailer, $5,100 obo. 837-1551
★ Black lacquer water bed, king size, 55-gallon aquarium w/iron stand, rocks, sponge. 858-8074 after 5 p.m.
★ Semi-V boat, 14', trailer, MinnKota trolling motor, Hummingbird fish finder, deep cycle battery, $500. 880-2373
★ Lincoln clad double-hung window sashes, 3/4" insulated glass, various sizes; 4x6 picture window sash, $2,000 all or $70 each. 971-9710
★ P133 w/32M Ram, no monitor, $150. 230-0068
★ Rotary lawn mower, 1 yr. old, 4.0HP, 20" rear discharge, $50; hand mixer, $8; charcoal grill, $10; blender, $6. 533-3912
★ 1987 Stratos bass-boat w/200 Mercury, 19'3", 12/24 TM, 2-df, hot foot, garage kept. 233-5032
★ Radar detectors, Passport, $50; Maxon, $35. 880-7305
★ Two Nokia cell phones w/chargers and in-car adapter, $50. 880-7305
★ Sears dryer; gas logs (28" wide) and 25 gallon tank; $50. 881-8882
★ Acer computer, monitor, 2-speakers, $600; Pfaltzgraff stoneware, complete set plus accessories, $75. 881-4067
★ Older trailer, 35', refurbished, large screened porch, located on Guntersville Lake, $8,000. 881-0883
★ Solid wood baby dresser and crib w/mattress set, $100. 464-0231
★ Pentium II Celeron 400mhz new systems for sale, $600. 851-0707/694-0708

Vehicles

★ 1965 Mustang, 289, auto, white, $6,350; 1993 Blazer, Tahoe, LT, 4WD, V6, 85K miles, $9,250. 776-4331
★ 1988 Honda Accord LXI, 5-speed, 145K miles, $4,900 obo; 1987 Oldsmobile, new engine has about 30K miles, $2,500 751-0682
★ 1990 Dodge Caravan, V6, 3.3L, 90K miles, original owner, 7-passenger, power windows/locks, $3,900 obo. 534-6166
★ 1990 Mazda Protege LX, 100K miles, a/c, cruise, sunroof, power windows/locks, $3,500 firm. 881-7870
★ 1993 Acura Legend, sunroof, leather, $12,500; 1993 Chevrolet extended cab pickup, 104K miles, $10,500. 880-8008/797-6173
★ 1996 Mazda 626 LX, V6, 62K miles, 5-speed, 25 mpg, white, sunroof, all power, $10,250. 574-5098
★ 1993 Ford Taurus GL, 4-door sedan, 6-cylinder, $3,500. 536-8692
★ 1986 Nissan 300ZX turbo, 5-speed, $2,500. 512-6618/leave message
★ 1997 Nissan Altima, 4-door, 54K miles, AM/FM tape, air, power windows/locks, $12,000 obo. 971-1696
★ 1991 Cadillac Sedan Deville, 68K miles, powder blue interior/exterior, $6,000. 230-2586
★ 1988 Allegro motor home, 28', fully equipped, 60K miles, new tires & 3 batteries, $21,750. 883-1860
★ 1989 Chevy conversion van, silver, four captain's chairs, rear heater/ac, folding rear seat, $3,200. 882-6446
★ 1972 Chevy truck, SWB, orange/white, 350 engine, transmission, a/c, many new parts, $7,500 obo. 851-2929
★ 1985 Ford Mustang GT, 5.0L, 5-speed, ~180K miles, $1,000 obo. 830-4521
★ 1989 Chevrolet Caprice Classic, maroon, 60K miles, automatic, a/c, power options, $3,500. 837-1561

Found

★ Pocket knife, west parking lot of Bldg. 4487. Call 544-3530 to identify.
★ CD case w/CDs. Call 544-4758 to identify

Free

★ Composted horse manure, black gold, gardener's delight, front-end loader available to load. 420-6574

Wanted

★ Honda Accord or Toyota Camry, 93-97, low miles, excellent condition. 883-2757
★ Easton Redline Z-Core baseball bat, 30", 18 ounce youth size. 721-9005

Center Announcements

☞ ***Software of the Year Nominations* —** Deadline to submit nominations for the annual Software of the Year Award is April 14. Competition guidance is available on the Web at: www.hq.nasa.gov/office/codei/swy99win.html

☞ ***'Secret Garden' Tickets* —** A limited supply of tickets for "The Secret Garden," the Tony Award-winning Broadway musical based on the children's book by Frances Hodgson Burnett's, is available at the NASA Exchange Space Shop in Bldg. 4752. The performance dates at the Von Braun Center Playhouse are: Friday, April 7, 7:30 p.m.; Saturday, April 8, 2 p.m. and 7:30 p.m.; Sunday, April 9, 2 p.m.; Thursday, April 13, 7:30 p.m.; Friday, April 14, 7:30 p.m.; and Saturday, April 15, 2 p.m. and 7:30 p.m. Tickets are $14.50 for adults and $10 for students and seniors. For more information, call Candy Bailey at 544-2185.

☞ ***Procurement Office Retirees Meet* —** Procurement Office retirees will meet for breakfast at 9 a.m. Tuesday at the Five Points Restaurant. For more information, call Carl Melton at 837-5604.

☞ ***Astrionics Lab Retirees Meet* —** Instrumentation Division Astrionics Lab retirees will meet at 11 a.m. Tuesday at the Redstone Golf Course Coffee Shop. The group meets the first Tuesday of each month.

☞ ***Photo Lab Retirees Meet* —** Photo Lab retirees will meet at 9:30 a.m. Tuesday at Shoney's on the corner of Memorial Parkway and University Drive. For more information, call Chuck Allen at 852-0917.

☞ ***Easter Egg Hunt* —** The annual NASA Exchange-sponsored Easter Egg Hunt will be April 9. Registration for door prizes begins at 2 p.m. followed by the hunt at 2:30. Children of Marshall employees and onsite contractors may participate. Rain date is April 16 at 2 p.m. For more information, call Gena Marsh at 544-0128 or Donna Mahieux at 544-7511.

☞ ***MARS Ballroom Dance Club* —** Rumba and samba lessons begin at 7 p.m. April 3, 10, 17 and 24 in the Parish Hall of St. Stephen's Episcopal Church at 8020 Whitesburg Dr. The lessons cost $6 per person per night. For more information, call Woody Bombara at 650-0200.

☞ ***Redstone Toastmasters* —** Do you want to improve your speech? Visit and join Redstone Toastmasters, which meets weekly at 6 p.m. on Tuesday at Piccadilly Cafeteria in Madison Square Mall. For more information, call Sylvia Battle at 890-0547.

☞ ***Lunar Nooners Toastmasters* —** The NASA Lunar Nooners Toastmasters Club meets Tuesday at 11:30 a.m. in Bldg. 4610 cafeteria conference room. All Marshall employees, contractors and friends are invited to attend. For more information, call Lee Johns at 544-5142. For more information, call James J. McGroary at 544-0013 or Abbie Johnson at 544-0014.

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